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WIPO		PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PN0487/PCT	FOR FURTHER ACTION	Examination Report (1 offin 1 O 1/12 21 2 120)			
International application No.	International filing date(day/mo		Priority date (day/month/ye		
PCT/KR2003/000068	14 JANUARY 2003 (14.01.20		15 JANUARY 2002 (15.0	11.2002)	
International Patent Classification (IPC	C) or national classification and IP	C			
IPC7 A61C 8/00				ļ	
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Applicant					
CHANG, Sang-Kohn					
This international preliminary and is transmitted to the application.	examination report has been prepart according to Article 36.	ared by this Inte	rnational Preliminary Exami	ning Authority	
2. This REPORT consists of a total	al of 4sheets, inch	uding this cover sl	neet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total					
3. This report contains indications	s relating to the following items:				
I X Basis of the repor	rt				
II Priority					
1	nt of opinion with regard to novel	ty, inventive step	and industrial applicability		
IV Lack of unity of i					
— Passaned statem	nent under Article 35(2) with regar	rd to novelty, inve	entive step or industrial appli-	cability;	
v X citations and expl	lanations supporting such stateme	nt	-		
VI Certain documen	ts cited				
VII Certain defects in	n the international application				
VIII Certain observati	ions on the international application	on			
, m					
D. Cularista and James 3	I Da	te of completion of	of this report		
Date of submission of the demand	Da l	or completion			
00 HH 3/ 2002 (02 07 2002)		20 APRIL 2	2004 (20.04.2004)		
02 JULY 2003 (02.07.2003)			-		
Name and mailing address of the IPE	FA/KR A1	thorized officer		far a succession	
Korean Intellectual Prop	perty Office				
920 Dunsan-dong, Seo-g Republic of Korea	gu, Daejeon 302-701,	KIM, Hee Seu	ng	MOMIN	
Facsimile No. 82-42-472-7140	Te	lephone No. 82-	42-481-8157		

L	I. Basis of the report						
1.	1. With regard to the elements of the international application:*						
ļ	X	the international application as originally filed					
l		the description:					
		pages	, as originally filed				
		pages, filed with the letter of	, filed with the demand				
l		the claims:					
	Ш	pages	, as originally filed				
		pages amended (together with an	y statment) under Article 19				
		pages, filed with the letter of	, filed with the demand				
		Ab desired					
		the drawings: pages	_ , as originally filed				
		pages					
	_	pages, filed with the letter of					
	Ш	the sequence listing part of the description:					
		pagespages					
		pages, filed with the letter of	,				
2.	the i	regard to the language, all the elements marked above were available or furnished to this Auth nternational application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language					
l		the language of a translation furnished for the purposes of international search (under Rule 23.					
		the language of publication of the international application (under Rule 48.3(b)).	(-//				
		the language of the translation furnished for the purposes of international preliminary exami or 55.3).	ination(under Rules 55.2 and/				
3	. Wit	h regard to any nucleotide and/or amino acid sequence disclosed in the international appli iminary examination was carried out on the basis of the sequence listing:	ication, the international				
		contained in the international application in written form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form					
		The statement that the subsequently furnished written sequence listing does not go bey international applicationas as filed has been furinshed.	yond the disc losure in the				
		The statement that the information recorded in computer readable form is identical to the was been furnished.	vritten sequence listing has				
4.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the description, pages the claims, Nos.					
		the drawings, sheet					
5.							
		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to				
*	Replacin this	cement sheets which have been furnished to the receiving Office in response to an invitation und opinion as "originally filed." and are not annexed to this report since they do not contain ().17).	der Article 14 are referred to amendments (Rules 70.16				
**	Any re	eplacement sheet containing such amendments must be referred to under item I and annexed to	this report.				

V. Reasoned statement under Article 35(2) with regard to	novelty, inventive step or industrial applicability:
citations and explanations supporting such statement	

1					
1.	Statement				
	Novelty (N)	Claims	1-5		<u>Y</u> ES
		Claims			NO
	Inventive step (IS)	Claims	1-5		YES
	mvenuve step (15)	Claims			NO
	Industrial applicability (IA)	Claims	1-5	1	YES
		Claims			NO
1					

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

- D1) US 4,486,178 A
- D2) US 5,007,835 A
- D3) US 5,312,255 A
- D4) JP 54-156389 U

## I -Novelty:

Claim 1 of the present invention is concerned with the dental implant system comprising the implant root having a taped post portion with a circular rim groove of upper portion thereof and a planting portion with multiple protruded circular pins, the abutment with a well in the lower and the upper side and the crown engaged to an upper side of the abutment. Although D1, D2 and D4 cited in the international search report disclose an implant comprising an implant root with a post portion engaged to a well of the abutment and a planting portion, the shape and composition of abutment are slightly different from that of claim 1 of the present invention. And also, all documents cited in the international search report do not reveal a circular rim groove of a post portion.

Accordingly, the subject matter of claim 1 seems to be novel. (PCT Article 33(2)). Claims 2-5 also comply with PCT Article 33(2) as they are dependent claims.

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

V.

II -Inventive step:

Even if the inventions of D1, D2 and D4 have an implant root with a post portion engaged to a well of the abutment and a planting portion, claim 1 is different from said three prior arts in the bonding structure and composition of a taped post portion, multiple protruded circular pins of a planting portion and abutment with an expanded portion. The invention of D3 does not have an abutment which combines the implant root with a crown. In addition, none of the documents cited in the International Search Report disclose a circular rim groove of a post portion which prevents the implant from escaping due to a certain friction force and there is no suggestion in any of the documents, either alone or in combination, which would lead to the solution posed by the present invention. Thus, claim 1 of the present invention meets the criteria set out in PCT Article 33(3). Claims 2-5 also comply with PCT Article 33(3) as they are dependent claims.

Claims 1-5 meet the criteria set out in PCT Article 33(4) as they are directed to an implant.